

Recombinant Human Transforming Growth Factor, Beta 2, Monomeric Form

Cat. No. TGFB2-467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFβ-2 is a 25.4 kDa protein composed of two identical 112 amino acid peptide chains linked by a single disulfide bond. It was expressed in <i>Nicotiana benthamiana</i> . Recombinant human TGFβ-2 is purified by sequential chromatography (FPLC). This product contains no animal –derived components or impurities.
Species	Human
Source	Nicotiana Benthamiana
Description	Transforming growth factor –β is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homodimeric proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGFβ (TGFβ-1, TGFβ-2 and TGFβ-3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Molecular Formula	C 602H909N167O171S10.
Extinction Coefficient	E 0.1% 2.02 (A 280 nm).
P.I	7.72.

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Purity Assay	>98 % as determinate by SDS-PAGE gel.
Endotoxin Level	< 0.04 EU/ g protein (LAL method).
Molecular Weight	recombinant protein 13.54 kDa, monomer form of 118 amino acid polypeptide chain.
Formulation	Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.
Stotage And Stability	This lyophilized preparation is stable at 2-8° C, but should be kept at –20°C for long term storage. Repeated freezing and thawing is not recommended.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Synonyms	TGFB2; Transforming growth factor beta 2; MGC116892; TGF-beta2; Transforming growth factor beta-2; TGF-beta-2; Glioblastoma-derived T-cell suppressor factor; G-TSF; BSC-1 cell growth inhibitor; Polyergin; Cetermin
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812
Chromosome Location	1q41

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Pathway

Cell cycle; Chronic myeloid leukemia; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling pathway; Hemostasis


Function

beta-amyloid binding; cytokine activity; protein heterodimerization activity; growth factor activity; type II transforming growth factor beta receptor binding; receptor signaling protein serine/threonine kinase activity

PDB rendering based on 1tfg.

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